

E UPENDRA REDDY

Tech Enthusiast

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 [upendra-reddy-e](#)

ABOUT ME

A passionate and self driven student with strong hands on experience in Embedded programming, Web development and IoT systems. Learning to connect physical and digital world to solve real time problems.

TECHNICAL SKILL/TECHNOLOGIES

- **Full Stack Web Development :** HTML, CSS, JavaScript, PHP, MySQL
- **Programming Languages :** C, Python, Java
- **Embedded Systems and IoT :** Arduino, Sensors, 8051 Microcontroller, Embedded C
- **Tools and Software :** Arduino IDE, Keil, Proteus, XAMPP
- **Additional Skill :** Graphic Design

PROJECTS/EXPERIENCE

IoT Based Smart Leak Detection System - Esp32, Sensors, C, HTML, CSS, JS, PHP, MySQL, Arduino IDE

Developed a IoT based Water leak detection system to participate in SIH-2025 Problem statement given by Government of Kerala

- Esp32 detects the leak in the pipeline using pressor sensors and programmed logic
- It sends sensor values and Leak Status to MySQL database using http request
- <https://drop.xo.je> is the web interface prototype for users and admin to check real time values of sensors, it also have a feedback portal, along with admin dashboard
- [More details about our Project](#)

Digital Watch - 8051 Microcontroller, Embedded C, Keil, Proteus

Developed a Digital Clock which runs on 8051 Microcontroller Timers, and Interrupts using Proteus and Keil

- Wrote C code in Keil software and debugged it
- Developed hardware using Proteus tool with AT89C51, 7 segment display

Questronics Event Portal - HTML, CSS, JS, PHP, MySQL

Built an event portal allowing student teams to retrieve Questions using teamcode (Ex: team1, team2, team15)

- Conducted an event for students in college about C programming

EDUCATION

CVR COLLEGE OF ENGINEERING, HYDERABAD

B. Tech, Electronics and Communication engineering

2023-2027

CGPA : 8.03

NARAYANA JUNIOR COLLEGE, MADHAPUR

Secondary Education

2021-2023

Percentage : 88.9%

JAWAHAR NAVODAYA VIDYALAYA, NIZAMSAGAR

Primary Education

Passes out : 2021